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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/834,450	04/13/2001	John McMichael	13024/37276	2932	
4743	7590 09/04/2003				
MARSHALL, GERSTEIN & BORUN LLP			EXAMINER		
6300 SEARS 233 S. WACK	ER DRIVE		EWOLDT, GERALD R		
CHICAGO, IL 60606			ART UNIT	PAPER NUMBER	
			1644	~7	
			DATE MAILED: 09/04/2003		
				/	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No. 09/834,450

Applicant(s)

McMichael

Examiner

G.R. Ewoldt, Ph.D.

Art Unit 1644



	The MAILING DATE of this communication appears	on the cover she	et with	the correspondence address	
Period	for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the					
	date of this communication.	n no event, nowever, m	ау а геріу	be turnery filled after SIA (o) MONTHS from the	
- If NO : - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within to period for reply is specified above, the maximum statutory period will apply to reply within the set or extended period for reply will, by statute, cause to ply received by the Office later than three months after the mailing date of patent term adjustment. See 37 CFR 1.704(b).	and will expire SIX (6) the application to becom	MONTHS I	from the mailing date of this communication. ONED (35 U.S.C. § 133).	
Status					
1) 💢	Responsive to communication(s) filed on Jun 26, 2	2003		·	
2a) 🗌	This action is FINAL . 2b) 💢 This ac	tion is non-final.			
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.				
Disposi	tion of Claims				
4) 💢	Claim(s) <u>1-12</u>			is/are pending in the application.	
4	la) Of the above, claim(s)			is/are withdrawn from consideration.	
5) 🗆	Claim(s)			is/are allowed.	
6) 💢	Claim(s) <u>1-12</u>			is/are rejected.	
7) 🗆	Claim(s)				
8) 🗆	Claims	are	subject	to restriction and/or election requirement.	
Applica	tion Papers				
9) 🗌	The specification is objected to by the Examiner.			·	
10)	The drawing(s) filed on is/are	e a) 🗆 accepted	d or b)	\square objected to by the Examiner.	
	Applicant may not request that any objection to the	drawing(s) be hel	d in abe	yance. See 37 CFR 1.85(a).	
11)□	The proposed drawing correction filed on	is:	a) 🗌 a	approved b) \square disapproved by the Examiner.	
	If approved, corrected drawings are required in reply	to this Office act	ion.		
12)	The oath or declaration is objected to by the Exam	niner.			
Priority	under 35 U.S.C. §§ 119 and 120				
13)	Acknowledgement is made of a claim for foreign p	priority under 35	U.S.C.	§ 119(a)-(d) or (f).	
a) [☐ All b)☐ Some* c)☐ None of:				
	1. \square Certified copies of the priority documents have	ve been received	d.		
	2. \square Certified copies of the priority documents hav	ve been received	in App	olication No	
	 Copies of the certified copies of the priority of application from the International Bure 	eau (PCT Rule 1	7.2(a)).		
*S	ee the attached detailed Office action for a list of th	ne certified copie	es not r	eceived.	
_	Acknowledgement is made of a claim for domestic				
a) The translation of the foreign language provisional application has been received.					
15)∐	Acknowledgement is made of a claim for domestic	priority under 3	35 U.S.	C. §§ 120 and/or 121.	
Attachm		() .			
$\tilde{\Box}$	tice of References Cited (PTO-892)			0-413) Paper No(s)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) Notice of Informal Patent Application (PTO-152) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s). 4 6) Other:					
-, M:	omation biologuio otatomonitis/ (FTO-1446) rapat NO(8).	or Other:			

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DETAILED ACTION

1. Applicant's election with traverse of the species, "pancreatic beta cells", in Paper No. 6, filed 6/26/03, is acknowledged. Applicant argues that the species are obvious variants of one another.

Given Applicant's admission that the species are obvious variants of one another, the species requirement is withdrawn.

Claims 1-12 read on the elected invention and are being acted upon.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office Action:

A person shall be entitled to a patent unless --.

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-2, 5-9, and 11 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by Posselt et al. (1990).

Posselt et al. teaches a method of preventing allograft rejection in a pancreatic beta cell transplant recipient comprising administering to the transplant recipient an antigenic preparation (by intravenous or subcutaneous injection) presenting antigen characteristics of the allograft, in combination with additional immunosuppressive therapy (ALS), either during transplantation or after transplantation (see entire document, particularly page 1294, column 1 and Table 1). Note that the transplanted organ itself comprises the antigenic preparation comprising the limitation of "during transplantation" recited in Claim 6 or "within an hour prior" to transplantation of Claim 7.

The reference clearly anticipates the claimed invention.

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the

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art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 3, 4, 10, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Posselt et al. (1990).

Posselt et al. has been described above. The reference teaching differs from the claimed invention only in that it does not teach the amount of antigenic preparation of Claims 3 and 4, nor the use of the claimed method for skin graft or blood or serum transfusion. Regarding the amount of antigenic preparation administered, the choice of said amount comprises only routine optimization of the claimed method, said routine optimization falling well within the purview of one of skill in the art at the time of the invention. Regarding employing the claimed method with skin graft or blood or serum transfusion, Applicant has stated for the record that said species comprise obvious variants of the claimed invention; see Applicant's response to the election of species requirement, Paper No. 6.

6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 7. Claims 1-12 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Specifically, the phrase "antigens characteristic of the allograft", is vague and indefinite as said "characteristics" have not been defined in the specification. Accordingly the metes and bounds of the claims cannot be ascertained.
- 8. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

9. Claims 1-12 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in

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the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification disclosure is insufficient to enable one skilled in the art to practice the invention as claimed without an undue amount of experimentation. Undue experimentation must be considered in light of factors including: the breadth of the claims, the nature of the invention, the state of the prior art, the level of one of ordinary skill in the art, the level of predictability of the art, the amount of direction provided by the inventor, the existence of working examples, and the quantity of experimentation needed to make or use the invention.

The claimed method comprises a method of inducing immune tolerance, said tolerance preventing allograft rejection. However, the method set forth in the Examples of the specification appears to be at best nonfunctional, and at worst, more dangerous to a transplant recipient than the possibility of In Example 1, greater than 50% of the animals died of the treatment (7 of 13). In Example 2, 11 of 14 experimental animals died during or shortly after treatment, and only one survived a month. The results of Example 3 are scientifically indecipherable. The specification indicates that the method worked no better than the controls in Example 4. discloses that at best, a single dosing of the method achieved only a 33.3% success rate, and then for no more than 13 days. Accordingly, the claimed method, as set forth in the specification, must be considered highly unpredictable. Given said unpredictability, the method of the instant claim must be considered to require undue experimentation.

In re Wands, 858 F.2d at 737, 8 USPQ2d at 1404 (Fed. Cir. 1988) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the statute. Thus, in view of the quantity of experimentation necessary, the lack of functional working examples, the unpredictability of the art, the lack of sufficient guidance in the specification, and the breadth of the claims, it would take undue trials and errors to practice the claimed invention.

10. No claim is allowed.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Gerald Ewoldt whose telephone number is (703) 308-9805. The examiner can normally be reached Monday through Thursday from 7:00 am to

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5:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

G.R. Ewoldt, Ph.D.

Primary Examiner

Technology Center 1600

September 03, 2003